

PUBLIC NOTICE

Date: August 8, 1986
 Permit No. MI 0002381
 Pennwalt Corp.-West Plant

The Michigan Water Resources Commission proposes to reissue a discharge permit to: Pennwalt Corporation - West Plant, 4655 Biddle Avenue, Wyandotte, Michigan, 48192. The applicant is engaged in the manufacture of organic chemicals. The applicant discharges process, noncontact cooling water and stormwater runoff to the Detroit River via the Trenton Channel, in Section 32, T3S, R11E, Wayne County.

The draft permit includes the following modifications to the previously issued permit: Discharges from Outfalls 001, 002, 003 and 005 are being terminated. Wastewater discharge to Outfall 006 will be increased from 10 MGD to 11.6 MGD.

Comments or objections to the draft permit received by September 8, 1986, will be considered in the final decision to issue the permit. Persons desiring information regarding the draft permit, procedures for commenting, or requesting a hearing, should contact: Diane M. Carlson, Permits Section, Surface Water Quality Division, Department of Natural Resources, P.O. Box 30028, Lansing, Michigan, 48909, Telephone (517) 373-8088.

Copies of the public notice, fact sheet, and draft permit may be obtained at the Surface Water Quality Division District Office located at the Detroit District Office, 15500 Sheldon Road, Northville, Michigan, 48167, Telephone: 313-459-4464.

FACT SHEET

PERMITTEE/FACILITY NAME: Pennwalt Corporation - West Plant

COUNTY: Wayne

DESCRIPTION OF EXISTING/PROPOSED WASTEWATER TREATMENT FACILITIES: Permittee operates scrubbing, steam stripping and absorption processes to remove organic contaminants from process wastewaters prior to recycle or contract disposal; segregation of wastes and contaminated wastewaters from process sources for contract disposal; pH control of combined process wastewaters and stormwater runoff by equalization, sedimentation and oil skimming prior to discharge to Monguagon Creek and the Detroit River.

MAP OF DISCHARGE LOCATION: (see attached)

RECEIVING WATER:

The Detroit River is protected for agricultural uses, navigation, industrial water supply, public water supply at the point of water intake, cold-water fish and total-body contact recreation. Receiving stream flow used to develop effluent limitations: 29,750 cfs (Trenton Channel).

MIXING ZONE:

For toxic pollutants, the volume of receiving water used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is 25% of the design flow of the receiving stream.

For other pollutants, the volume of receiving water used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is the design flow of the receiving stream.

EXISTING/PROPOSED EFFLUENT QUALITY: (from application dated August 15, 1984)

<u>Parameters</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Flow (MGD)		7.9	10.1
BOD ₅ (mg/l)			
BOD ₅ (lbs/day)		447	3,338
COD ₅ (mg/l)		16	102
Total Suspended Solids (lbs/day) Net		-1705	558
Chloride (Net)		265	2674
Ammonia (unionized) (mg/l)		0.141	15.123
Total Residual Chlorine (mg/l)		0.01	0.20
Phenol (ug/l)		26	350
Sulphide (mg/l)		0.02	34
Total Zinc (ug/l)		109	500
Oil & Grease		No Visible Film	
pH	6.3		10.6

US EPA RECORDS CENTER REGION 5



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8/8/86
 F-1

PROPOSED EFFLUENT LIMITATIONS: (see attached pages from draft permit)

BASIS FOR PROPOSED EFFLUENT LIMITATIONS:

Based on this facility's application for NPDES discharge permit, the Michigan Water Resources Commission proposes to issue the applicant a permit to discharge, subject to effluent limitations and certain other conditions within the permit. Effluent limitations for TSS and Total Zinc are based on Best Professional Judgment and 40 CFR, Parts 414 and 416, the Organic Chemical Regulations. The total residual chlorine limit is based on water quality requirements. Phenol, BOD and NH limits are based on current permit limits.

REGISTER OF INTERESTED PERSONS

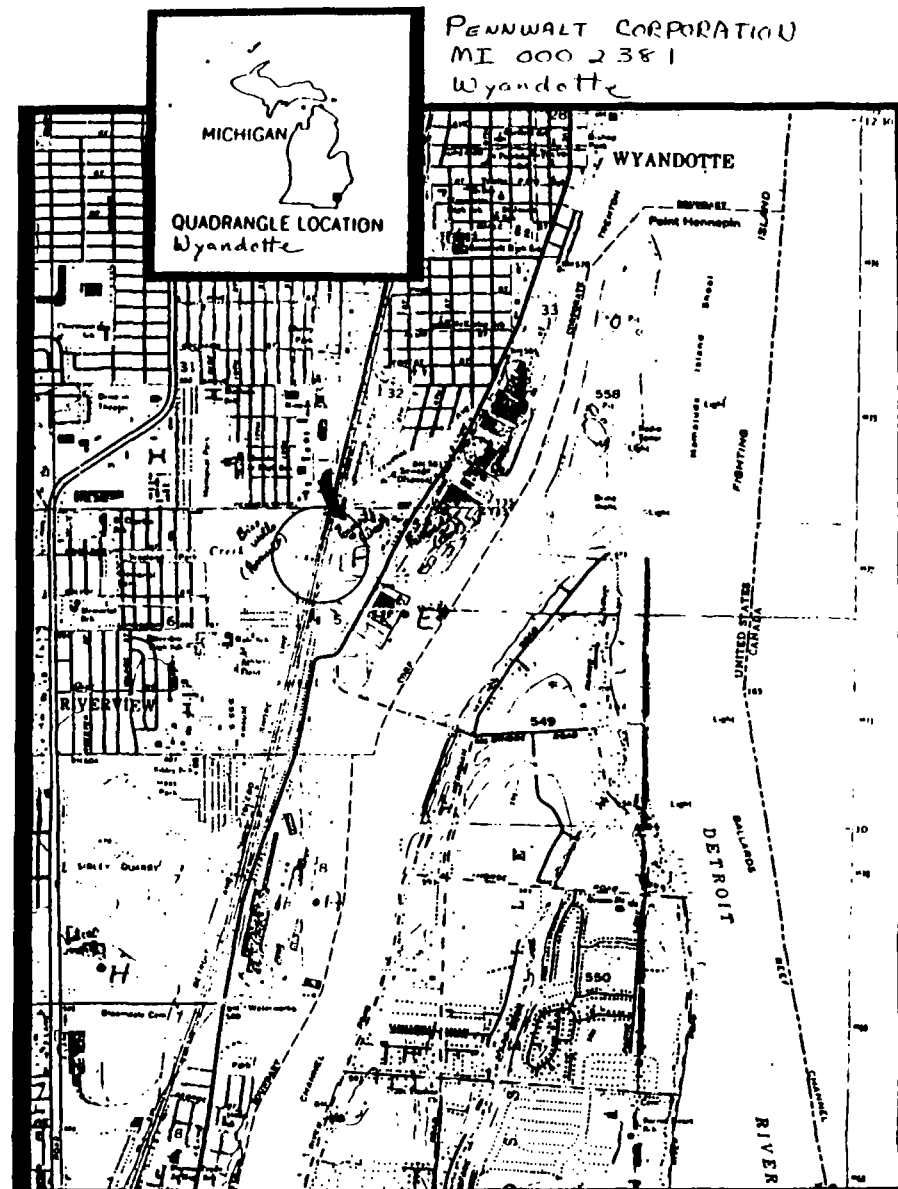
Any person interested in a particular application or group of applications, may leave his name, address, and telephone number as part of the file for an application. The list of names will be maintained as a means for persons with an interest in an application to contact others with similar interests.

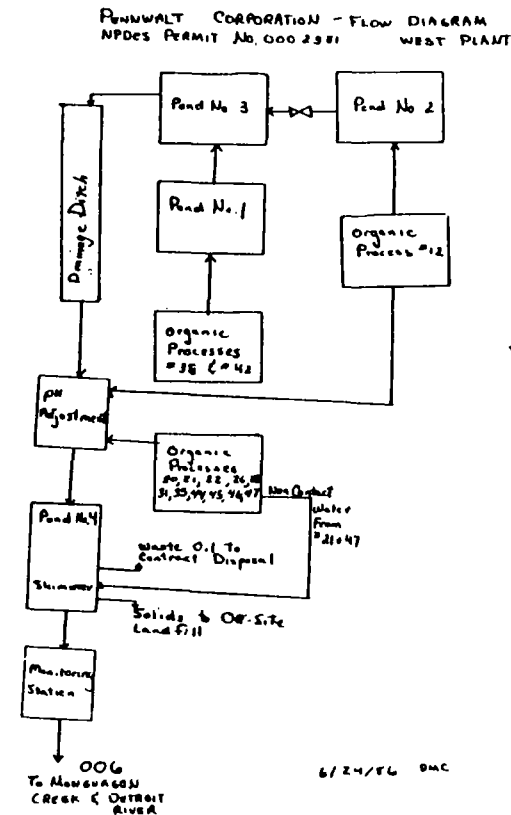
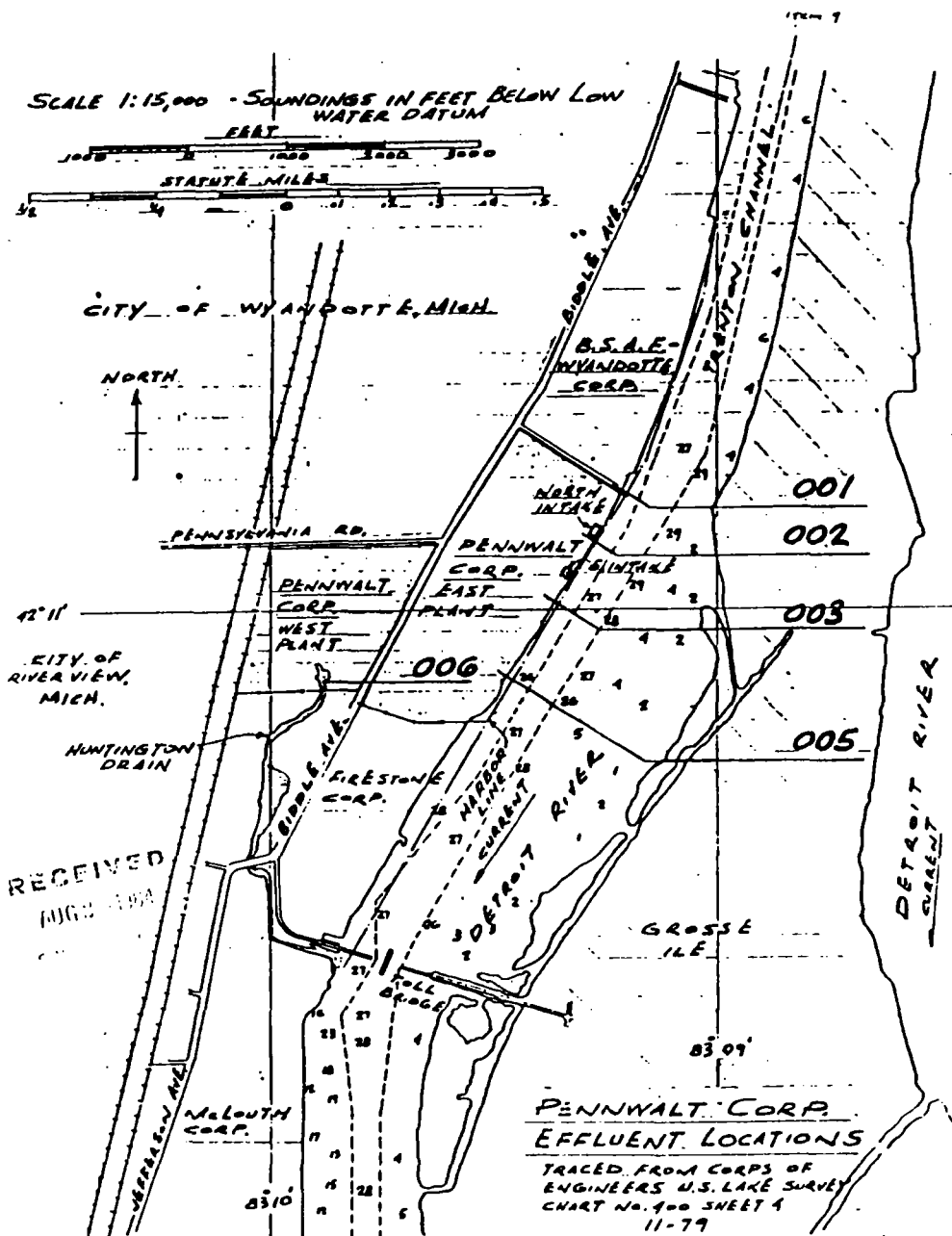
PUBLIC COMMENT

Comments or objections to the draft permit received between 8/8/1986 9/8/86 will be considered in the final decision to issue the permit.

If submitted comments indicate significant public interest in the application or if useful information may be produced, the Michigan Water Resources Commission at its discretion, may hold a public hearing on the application. Any person may request the Michigan Water Resources Commission to hold a public hearing on the application. The request should include specific reasons for the request, indicating which portions of the application or draft permit constitutes the need for a hearing.

Public notice of a hearing will be provided at least thirty (30) days in advance. The hearing will normally be held in the vicinity of the discharge. The Michigan Water Resources Commission will consider comments made at the hearing when making its final determinations on the permit. Further information regarding the draft permit, and procedures for commenting or requesting a public hearing may be obtained by contacting Ms. Diane M. Carlson, Permits Section, Surface Water Quality Division, Department of Natural Resources, P.O. Box 70028, Lansing, Michigan, 48909. Telephone 517-373-8088.





Wastewater Treatment

Scrubbing, steam stripping, and absorption process to remove contaminants from process waste water sources for recycle or contract disposal; segregation of wastes and contaminated waste waters from process sources for contract disposal; pH control of combined process waste water stream followed by equalization; sedimentation; and oil skimming prior to discharge at the Outfall.

PART I

**DRAFT
PERMIT**

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

Beginning on the date of issuance of the permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of eleven million six hundred thousand (11,600,000) gallons per day of process water, barometric condenser cooling water, noncontact cooling water and an unspecified amount of stormwater runoff from outfall 006 to Monguagon Creek to the Detroit River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Limitations		Measurement Frequency	Sample Type
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow, M ³ /Day (MGD)						
Total Suspended Solids	425 (934)	1625 (3580)	14.2 mg/l	37 mg/l	3x Weekly	24-Hr. Composite
BOD ₅	661 (1457)	967 (2133)			3x Weekly	24-Hr. Composite
Total Zinc			105 ug/l	190 ug/l	2x Monthly	24-Hr. Composite
Total Residual Chlorine				0.036 mg/l	3x Weekly	Grab
Phenol				0.200 mg/l	3x Weekly	24-Hr. Composite
Chlorides			Monitor		3x Weekly	24-Hr. Composite
Outfall Observation*					Daily	Visual Observation
Temperature			Monitor		3x Weekly	Reading

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: three times weekly; grab.

b. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

c. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken at outfall 006 prior to discharge to Monguagon Creek.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

**DRAFT
PERMIT**

Part I-A-1 (continued)

e. The above limitations for total suspended solids may be modified to a Net value upon demonstration to the Chief of the Surface Water Quality Division that gross values are unattainable by making the net demonstration according to 40 CFR Part 122. Such modification shall be made in accordance with Part II, Section B-4.